INCH-POUND

MIL-PRF-15733/57C
28 May 2003
SUPERSEDING
MIL-PRF-15733/57B(USAF)
16 December 1981

PERFORMANCE SPECIFICATION SHEET

FILTER, RADIO FREQUENCY INTERFERENCE, HERMETICALLY SEALED, STYLE FL62

This specification sheet is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for acquiring the filters described herein shall consist of this specification sheet and the latest issue of MIL-PRF-15733.

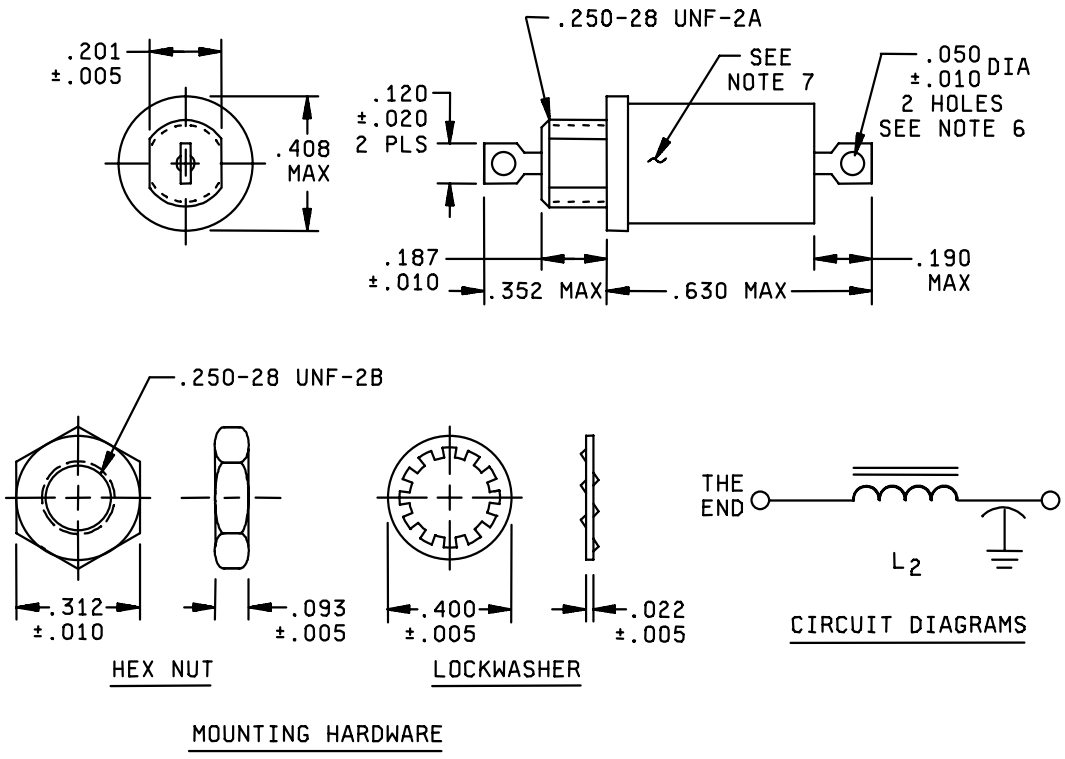

FIGURE 1. Case dimensions and circuit diagram.

Inches	mm
.005	0.13
.010	0.25
.020	0.51
.022	0.56
.050	1.27
.070	1.78
.093	2.36
.120	3.05
.187	4.75
.190	4.83
.201	5.11
.250	6.35
.312	7.92
.352	8.94
.400	10.16
.408	10.36
.630	16.00

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Circuit diagram is for information only.
4. All filters shall be supplied with mounting hardware.
5. Use of style FL62 with or without shoulder is optional
6. Optional terminal hole .070 $\pm$.010 inches or terminal slot .050 $\pm$.010 x .070 $\pm$.010 inches may be supplied.
7. Terminal identification (non-symmetrical filters): The case shall be marked at the threaded end of the filter with the symbol “L”.

FIGURE 1. Case dimensions and circuit diagram - Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Case: Metal.

Case and mounting hardware finish: In accordance with MIL-PRF-15733. Pure tin finish is prohibited.

Terminals: Solder lug.

Operating temperature range: -55°C to +125°C.

Rated voltage: 150 V dc at 125°C; 125 V ac, 400 hertz at 125°C.

Rated current: See table I.

Insertion loss: In accordance with MIL-PRF-15733 and table I.

TABLE I. Electrical characteristics.

Dash number	Maximum rated current (ampere)	Minimum insertion loss (dB) in accordance with MIL-STD-220 1/													
		At +25°C							At -55°C and +125°C						
		100 kHz	150 kHz	300 kHz	1 MHz	10 MHz	100 MHz	1 GHz	100 kHz	150 kHz	300 kHz	1 MHz	10 MHz	100 MHz	1 GHz
0001	0.5	18	24	28	58	60	60	60	16	22	26	56	60	60	60

1/ Insertion loss measurements shall be made under full load over the frequency range of 100 kHz to 10 MHz. Insertion loss measurements above this frequency range shall be under no-load.

Seal: In accordance with MIL-PRF-15733.

Temperature rise: In accordance with MIL-PRF-15733; 25°C, maximum.

Dielectric withstanding voltage: In accordance with MIL-PRF-15733. The following exceptions shall apply:

Test temperature: 25°C.

Test voltage: 2.0 times the rated dc voltage applied between each terminal and ground, for a period of 1 to 5 seconds.

Barometric pressure (reduced): In accordance with MIL-PRF-15733 and method 105, MIL-STD-202; test condition C (70,000 ft). The following details apply:

Dielectric withstanding voltage: 125 percent of the rated dc voltage for 60 seconds.

Insulation resistance: In accordance with MIL-PRF-15733. The following details and exceptions shall apply:

Test temperature: 25°C.

Test potential: Rated dc voltage.

Maximum charging current: 150 milliamperes for 2 minutes.

Insulation resistance: Shall be not less than 1,000 megohms.

Voltage drop: .18 volt, maximum.

Overload: In accordance with MIL-PRF-15733. After the filter has returned to room temperature, the insulation resistance and voltage drop measurements shall meet initial requirements.

Terminal strength: In accordance with MIL-PRF-15733 and method 211, MIL-STD-202; test condition A (pull).

Force: 5 pounds.

Salt atmosphere (corrosion): In accordance with MIL-PRF-15733 and method 101, MIL-STD-202; test condition A.

Shock (specified pulse): In accordance with MIL-PRF-15733 and method 213, MIL-STD-202; test condition I.

Vibration, high frequency: In accordance with MIL-PRF-15733 and method 204, MIL-STD-202; test condition B (15 g).

Life: In accordance with MIL-PRF-15733 and method 108, MIL-STD-202; test condition B (250 hours).

Part or Identifying Number (PIN): M15733/57-0001.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodians:
Air Force - 11
Navy - EC
DLA – CC

Preparing activity:
DLA - CC

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